

Dunn County Livestock Operations Study Group Preliminary Opportunities and Recommendations April 27, 2017

To assist the LOSG in making recommendations, the following is a compilation of suggested opportunities for consideration. These opportunities were largely taken from presentations and report summaries. The suggested recommendations for specific opportunities are shown as bullet points. Prior to the final report being issued staff will confer with legal counsel.

I COUNTY & COMMUNITY PLANNING, STUDY, OR MONITORING		
Clarification Needed?	Opportunities	Citation
1. General Planning		
	<p>A. Identify trends and environmental concerns such as: environmentally sensitive areas and susceptible soils in Dunn County.</p> <ul style="list-style-type: none"> • Create maps and monitor WPDES “restrictive features” • Incorporate “restrictive features”, environmentally sensitive areas, and at-risk groundwater areas into the Dunn County Comprehensive Plan and other Dunn County policies and ordinances. • Amend the Dunn County Human Health Hazard ordinance (254) water testing scope to include testing for sensitive areas. • Developing a public interactive GIS map. 	<p>Nichol, Baeten, O’Rourke 2/16/2017 Thiboldeaux 2/2/2017 Bergeson Bonness 2/2/201</p>

2. Groundwater-Specific		
	A. Track and evaluate the potential impacts of policy changes, BMPs to quality and quantity of groundwater.	Masarik 1/6/2017; Bonness 2/2/2017
	B. Create a public clearinghouse/one-stop-shop for well-, ground-, surface and other water related data, trends, maps, NMP, soil- and other tests and reports. <ul style="list-style-type: none"> ● Establish a Dunn County baseline for groundwater baseline ● Conduct additional well testing and prioritized high-risk groundwater areas. ● Define and map at-risk groundwater areas. ● Develop a hydrological groundwater model for Dunn County to track depth of groundwater, sources of contamination, and groundwater movement. ● Develop a GIS-map to include GPS location of old and new wells, well test data, NMPs, BMPs, and permitting. 	Bergeson 3/16/2017 Masarik 1/6/201
	C. Develop a Town-based well testing program.	Masarik 1/6/2017
	D. Work with the DNR water testing laboratories and with Wisconsin certified testing laboratories to expand water sampling results to represent a complete analysis.	Bergeson 3/16/2017
3. Other		
	A. Monitor the sources of manure and where it is being spread. <ul style="list-style-type: none"> ● Create a map and database 	Masarik 1/6/2017

	B. Develop a livestock operations complaints process.	Bonness 2/2/2017
II RULES, REGULATIONS, PERMITTING, AND COMPLIANCE		
Clarification Needed?	Opportunities	Citation
1. Regulatory Tools <i>Overall, what mix of tools is best for Dunn County?</i>		
	A. Develop a Dunn County Stormwater Erosion Control Ordinance.	Prestebak 1/22/2017
	B. Research if Dunn County should regulate livestock operations through livestock facilities (zoning) or through livestock licensing. <ul style="list-style-type: none"> • Adopt either a livestock operations licensing ordinance, or • Amend Dunn County zoning ordinance to include additional livestock siting standards 	Clayton 1/22/2017; Bonness 2/2/2017 Fischback 3/2/2017 Thiboldeaux 2/2/2017
	C. Research combining related Dunn County ordinances into a single ordinance.	
	D. Create and adopt a nuisance-style Public Health Groundwater Protection Ordinance.	Bonness 2/2/2017
	E. Develop an impaired watershed or high-risk area-specific ordinance.	Fischback 3/2/2017

	F. Create a Public Health livestock disease outbreak ordinance.	Fischback 3/2/2017
2. Regulatory Standards – Manure and Nutrient Management Specific <i>May apply to 1 or more tools.</i>		
	A. Amend Dunn County regulations to be compliant with current NRCS 590 standards.	Clayton 1/22/2017
	B. Amend the Dunn County manure management ordinance. <ul style="list-style-type: none"> • Require additional nitrate standards. • Require proof such as: adequate land is available for land spreading, a nutrient management plan is in place, and records of compliance as part of the manure licensing permitting process. • Define terms for manure storage, such as: altered, mismanaged, and malfunctioning • Amend NRCS standards to require 5,000 cubic ft of storage.. 	Masarik 1/6/2017 Prestebak 1/22/2017 Clayton 1/22/2017
	C. Increase the use of draglines for manure applications. <ul style="list-style-type: none"> • Develop a permitting process for draglines in the right-of-ways, through culverts, or crossing navigable waters at the Town and County level. • Require precision application/injection as part of an operation permit for large livestock operations. • Require a flow meter and GPS device to be installed on dragline equipment to monitor compliance with NMP. 	Fischback 3/2/2017 Nichol, Baeten, O'Rourke 2/16/2017 Pittman 3/16/2017
	D. Work with the DNR water testing laboratories and with Wisconsin certified testing laboratories to expand water sampling results to represent a complete analysis.	Bergeson 3/16/2017
	E. Create Transportation Impact Assessment policies and procedures for livestock operations.	Rintala 3/2/2017

3. Regulatory Standards - Other <i>What other specific standards or policy changes are desired? May apply to 1 or more tools.</i>		
	A. Develop Water Quality Management Areas.	Prestebak 1/22/2017
	B. Require backflow prevention for wells, spickets, etc.	Masarik 1/6/2017
4. Regulatory Administration and Enforcement		
	A. Pursue citation authority for LCD and Zoning.	Prestebak 1/22/2017
	B. Monitor and enforce nutrient management plan compliance. <ul style="list-style-type: none"> Consider a “use permit” approach that is issued after an inspection and review of as-builts. Monitor and conduct manure hauling audits. 	Clayton 1/22/2017; Prestebak 1/22/2017 Nichol, Baeten, O’Rourke 2/16/2017

		Bonness 2/2/201
	C. Amend fees to cover true costs of permitting and compliance.	Prestebak 1/22/2017
	D. Amend Dunn County ordinances regarding penalties and fines for non-compliance.	Clayton 1/22/2017
	E. Adopt a resolution requesting a public hearing for all WPDES permits.	Nichol, Baeten, O'Rourke 2/16/2017
	F. Create standards for small livestock operations.	Fischback 3/2/2017
III BEST PRACTICES AND PROGRAMMING		
Clarification Needed?	Opportunities	Citation
1. Agriculture and Farming BMPs and Programming		
last part	A. Map existing BMPs , and explain the reasons they are being used, (incentives, being a good neighbor, regulatory requirement, etc.).	Thiboldeaux 2/2/2017
	B. Promote the use of cover crops, nutrient management plans, and other agricultural BMPs.	Masarik 1/6/2017

	C. Promote soil health BMPs to increase infiltration and reduce runoff.	Zerr 3/30/2017
X DAN	D. Establish manure management procedures with the DNR.	Prestebak 1/22/2017
maybe	E. Promote third party review of NMPs.	Prestebak 1/22/2017
	F. Encourage odor management plans and better controls <ul style="list-style-type: none"> • Monitor and enforce odor management practices 	Clayton 1/22/2017
	G. Promote technologies such as digesters as a method of reducing pathogens and pollutants.	Thiboldeaux 2/2/2017 Fischback 3/2/2017
	H. Encourage landowners to write their own NMPs. <ul style="list-style-type: none"> • Promote NMP class at the CVTC. 	Nichol, Baeten, O'Rourke 2/16/2017
	I. Promote livestock operations to increase precision application/injection of manure and fertilizers.	Pittman 3/16/2017 Fischback 3/2/2017 WI Air Advisory Group
	J. Promote livestock operation to share in the cost of precision application/injection equipment to apply manure and fertilizers.	

2. Other		
	A. Educate the public and local officials on well testing, wellhead protection, well maintenance, well treatment options, and proper well abandonment.	Masarik 1/6/2017 Bergeson 3/16/2017
	B. Research water quality trading options and adaptive management.	Fischback 3/2/2017
	C. Encourage WDNR to develop TMDLs for other impaired waters and sub-watersheds.	Zerr 3/30/2017
	D. Improve surface waters of Dunn County. <ul style="list-style-type: none"> • Implement the Red Cedar River Watershed Plan, and Dunn County Land and Water Plan. • Implement the TMDLs and 9 Key Element Plan. 	Zerr 3/30/2017
IV EDUCATION, COMMUNICATIONS, AND OTHER		
Clarification Needed?	Opportunities	Citation
1. Agriculture and Farming Related		
	A. Educate the public and local officials on livestock siting standards.	Masarik 1/6/2017 Clayton 1/22/2017

	B. Promote the annual CAFO conference.	Prestebak 1/22/2017
	C. Create a Dunn County CAFO/Livestock Operations group.	Prestebak 1/22/2017
	D. Educate the public and local officials on modern farm operations such as : manure application/injection practices, manure application rates,the Right-to-Farm law, and farm operation events (Farm Days).	Thiboldeaux 2/2/2017 Pittman 3/16/2017 Straight 3/30/2017 Prestebak 1/22/2017
	E. Educate the public and local officials on NMPs.	Nichol, Baeten, O'Rourke 2/16/2017
	F. Expand NMP education to include contracted manure haulers and spreaders.	Nichol, Baeten, O'Rourke 2/16/2017
2. Well & Groundwater Related		
	A. Educate the public and local officials on sources of drinking water and associated risks.	Masarik 1/6/2017
	B. Educate the public and local officials on well testing, wellhead protection, well maintenance, well treatment options, and proper well abandonment.	Masarik 1/6/2017 Fischback

	<ul style="list-style-type: none"> ● Provide information and maps to the public on well-related data, trends, and risks. ● Provide information to well drillers on groundwater susceptibility, geology features, and static groundwater depth. Provide information to well drillers on high risks areas, known bedrock features, etc. ● Map decommissioned and abandoned wells. ● Provide educational materials to landowners on well siting. 	3/2/2017
	C. Educate the public and local officials about health codes, water testing requirements, and procedures .	Thiboldeaux 2/2/2017
3. Other		
	A. Educate the public and local elected officials on environmentally sensitive areas.	Nichol, Baeten, O'Rourke 2/16/2017